



CITY OF HAYWARD

AGENDA REPORT

AGENDA DATE 11/21/00

AGENDA ITEM 2.3

WORK SESSION ITEM _____

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Water System Evaluation Prior to Conversion to Chloramine: Authorization for Execution of a Professional Design Services Agreement

RECOMMENDATION:

It is recommended that the City Council approve the attached resolution authorizing the execution of an agreement with Carollo Engineers for professional services in an amount not to exceed \$150,000.

BACKGROUND:

Chlorine is currently being used as a disinfectant in the water that is delivered by the San Francisco Public Utilities Commission to San Francisco and many of the Bay Area municipalities including Hayward. Due to concerns regarding possible carcinogenic effects of some of the by-products that result from the use of chlorine, federal regulations will soon require limitations on dosage of chlorine. An alternative to chlorine is chloramine, which is a mixture of chlorine and ammonia and has the same disinfecting characteristics, but remains in the water longer, thus allowing lower dosage. Several Bay Area water agencies, including EBMUD and Alameda County Water District (ACWD) have in the past few years converted to the use of chloramine. SFPUC is planning to follow suit in about two years. The purpose of the chloramine conversion study is to evaluate the water distribution system and assess changes that need to be made to prepare Hayward's water distribution system for the change.

On a related note, the adopted budget provides for an update of the Water Distribution System Master Plan. The present Plan was prepared in 1996 at the end of a long drought, so most of the historical information, and thus future projections, were somewhat impacted by the drought and the associated water consumption restrictions. Therefore, the projections on which the current Master Plan is based need to be reexamined. Also, many of the recommended projects in the current Master Plan have been built, so there is a desire for a system re-evaluation.

As Council is aware, the process of updating the City's General Plan has recently started. The new General Plan may include new or revised policies, which could impact the water transmission and distribution needs. It is important that the water master plan update incorporate the new data from the General Plan update. However, there will be significant benefit in performing the Water Master Plan update and the chloramine study by the same

consultant and under the same contract, since it minimizes duplication of effort and cost. Therefore, the Water Master Plan update will be incorporated in the current contract, but will be performed as a second phase after the General Plan is developed to a point that relevant information and data is available for use in the preparation of the Master Plan. This, in practical terms, would mean that the chloramine conversion study will be performed first, and the Master Plan update will be finalized subsequently.

Environmental Review:

The preparation of the chloramine study and Master Plan project is categorically exempt from environmental review under the California Environmental Quality Act (CEQA). The Public Resource Code states that CEQA does not apply to any project consisting of the operation, repair, maintenance, or minor alteration of existing public structures facilities, mechanical equipment, or topographical features involving negligible or no expansion of the use beyond that existing at the time of the lead agency's determination. This Master Plan will review efficiency, capability, reliability, and redundancy of the Water Distribution System, and is not intended to increase its capacity beyond that which is existing today, and approved expansions to accommodate the City's General Plan projections.

Consultant Selection:

Four firms, nationally known in the water and wastewater fields, were invited to submit proposals for the project. Two firms declined to submit proposals. The selection was based on: 1) relevant experience of each firm, the qualifications of the project manager and team members assigned to the project, 2) understanding of the specific issues of concern, and 3) ability to meet City needs, within the City defined budget and timeline. Of the remaining two firms submitting proposals, Carollo Engineers, was selected as the most qualified firm. The firm has assembled an experienced professional team. Carollo's proposal is more responsive to the City's needs, and covers all elements discussed in the scope of work outlined in the request for proposals.

The proposed contract is for a fee not to exceed \$150,000. Neither Carollo nor the other firm is proposing to utilize a subconsultant, which is understandable for this type and size project. However, staff anticipates that a subconsultant will complete some of the work related to preparation of the plans, specifications and engineer's estimate in support of the chloramine conversion work. The use of a DBE/WBE subconsultant would be appropriate for this portion of the work.

Funding:

The approved FY2000/01 Water Operating budget includes \$90,000 for preparation of the Water Distribution Master Plan. The Water Capital Improvement Fund includes \$200,000 for the chloramine conversion study. Therefore, sufficient funds are available to begin this phase of the project,

Schedule:

The following schedule has been established for this project:

Notice to Proceed
Completion

November 23, 2000
April 27, 2001

Prepared by:


For Alex Ameri, Deputy Director of Public Works

Recommended by:


Dennis L. Butler, Director of Public Works

Approved by:


Jesús Armas, City Manager

DRAFT

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

RESOLUTION AUTHORIZING THE CITY MANAGER
TO EXECUTE AN AGREEMENT BETWEEN THE CITY
OF HAYWARD AND CAROLLO ENGINEERS FOR
PROFESSIONAL SERVICES RELATING TO
PREPARATION OF A CHLORAMINE CONVERSION
STUDY AND WATER DISTRIBUTION SYSTEM
MASTER PLAN UPDATE

BE IT RESOLVED by the City Council of the City of Hayward that the City Manager is hereby authorized and directed to execute on behalf of the City of Hayward an agreement with Carollo Engineers for professional services relating to the preparation of a Chloramine Conversion Study and Water Distribution System Master Plan Update for the City, in an amount not to exceed \$150,000; in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2000

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward